Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.Agriculture (2014 & Onwards) (Sem.–6)

BREEDING OF FIELD & HORTICULTURAL CROPS

Subject Code : BSAG-604

Paper ID : [74347]

Time : 3 Hrs. Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1. Write short notes on :

a) Self-pollinated crops.

b) Wild relatives of citrus.

c) Origin of red gram.

d) Ideotype.

e) Epistasis.

f) Hardy-Weinberg's Law.

g) Genetic variability.

h) Important varieties of maize.

i) Pollination in rice.

j) Additive gene effect.

SECTION-B

Q2. Explain the mechanisms of disease and insect pest resistance in vegetable crops.

Q3. What do you understand by the term IPR? How is the concept of IPR useful for farmers?

Q4. What do you mean by gene effects? Explain with examples. Write their significance in crop improvement.

Q5. Define ideotype. What are the ideotypic characters for cotton?

Q6. Explain the breeding objectives and procedures for improvement in chrysanthemum.

SECTION-C

Q7. Explain origin, distribution, wild relatives, objectives and methods of breeding in improvement of wheat.

Q8. How has the ancient wild tomato cultivars been developed to modern day improved varieties? Describe breeding strategies employed to develop resistance against biotic and abiotic stresses in tomato.

Q9. What are the wild relatives of plants? How are they conserved for utilization in crop improvement? Explain with examples.